



US006822871B2

(12) **United States Patent**  
Lee et al.

(10) **Patent No.:** US **6,822,871 B2**  
(45) **Date of Patent:** Nov. 23, 2004

(54) **SLIDING-TYPE PORTABLE WIRELESS TERMINAL**

EP 0580334 1/1994 ..... H04M/1/02  
EP 0944219 9/1999 ..... H04M/1/02  
EP 1150476 10/2001 ..... H04M/1/02

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 35 days.

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(21) Appl. No.: **10/379,551**

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(22) Filed: **Mar. 6, 2003**

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(65) **Prior Publication Data**

US 2004/0085739 A1 May 6, 2004

(57) **ABSTRACT**

(30) **Foreign Application Priority Data**

Nov. 19, 2002 (KR) ..... 10-2002-71911

A sliding-type portable wireless terminal that has a main body, and a sub body that longitudinally slides on the main body to open from and close into the main body. The sliding-type portable wireless terminal comprises a spring module that is fixed to the main body and includes torsion springs for supplying a sliding force in a direction of closing the sub body into the main body when the sub body is downwardly slid on the main body by a designated distance in the direction of closing the sub body into the main body, and supplying a sliding force in a direction of opening the sub body from the main body when the sub body is upwardly slid on the main body by the designated distance in the direction of opening the sub body from the main body. The sliding-type portable wireless terminal uses the torsion springs as means for sliding the sub body on the main body, thereby ensuring a smooth sliding motion of the sub body. In addition, the sliding-type portable wireless terminal use the torsion springs having a small height, thereby manufacturing the spring module with a slim size and being advantageous in terms of the miniaturization of the terminal.

(51) **Int. Cl.<sup>7</sup>** ..... **H05K 5/03**

(52) **U.S. Cl.** ..... **361/727; 361/679; 379/433.01**

(58) **Field of Search** ..... **361/679-681; 379/428.01, 433.01, 433.12, 440**

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**15 Claims, 7 Drawing Sheets**

